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at Bates County For the Year 1886,

as Prepared by John Whitehead and Submitted to the Labor Commissioner of the State.

To the Hon. Oscar Kochtitzky, Labor Commissioner of Missouri: In submitting this, my first report, Indeavor to appreciate the great responsibility resting upon me in wifilling my duties alike to compagies and miners. It was with great diffidence that I accepted the postion, after the duties of the office had been so ably and judiciously performed by my most worthy and competent predecessor, M. L. Wolte, who resigned the office in November, 1885, after having served geeral years in that capacity. This office is of much more importance, when the objects for which it was created are fully carried out, and the responsibility resting upon the Inspector is much greater than would at first appear to an inexperienced person in mining, and the compen mion at present given this officer is wholly inadequate to justify a man with the experience and ability to perform the duties devoting his time and energies to the work. I would recommend that the legislature, at ts next general assembly, divide the mining portions of the state into districts, and a mine inspector be appointed to each of these districts, whose duty it shall be to look after all the mining interests in his respective district, the same as by law he nat present required to do for his ity. The said Inspector to be appointed by the governor of the state, and have a fixed salary, to be pad proportionately by the counties m said district. Your Inspector. before making out his report, inter newed a number of leading miners in each mine in relation to the present mining law, and asked of them ithey knew of any changes that should be made therein; it so, would embody them in my report and endeavor to have them brought before the next legislature. The substance in every case was that they were well satisfied with the present law and its enforcement, and had no changes to recommend. The officials of the companies and the miners are working in harmony, the best of teeling existing between them. No such thing as a strike or walk-out has occurred during my term of

I have the honor to report the

WORKABLE MINES IN COUNTY.

The number of mines in Bates ounty required by law for your Mine aspector to take recognizance of are eleven in full operation. These mines are all operated in the Rich Hill coal senes, and do not include be strip pits nor those mines worked nother coal series of Bates county, sich as Walnut, Mulberry, Hudson, etc. To include all of these in my eport would run up into the hunfreds, and would be both useless and tedious to enumerate. Those in peration on the Missouri Pacific Railroad are conducted by the Rich Hill Coal Mining Company and managed by the following officers: R. M. McDowell, general manager; I. Fleming, superintendent; J. T. Reavly, assistant superintendant, and and are as follows:

MINE NO. 1,

worked by slope; the coal is drawn P to the tipple with an engine, 30 borse power, Henry Huttanus, enmeer; the pit boss is George Mayn. The number of men employed forty-nine, and fourteen hands imployed in and about the mine, cluding George Farris, weigh boss.

INE INSPECTOR'S REPORT, thich; the roof is black slate and soap in excellent working condition. This tion for their safety and comfort in coal will be extensively mined in a heating the air it expands and lightstone; there are two or three small mine is worked with an average of the mines. They endeavor to live very short time. From a careful ens and tushes up the shaft and of veins above the mam one, not work- 30 railroad cars per day. Right up to the requirements of the law study of the coal interests of Bates course the heavy or cold air rushes able, from 8 to 15 inches. This here we would digress a little to in the conduct of their mines, such county for years, I am led to believe in at the down cast to fill up the mine is the first one that was oper- notice the efficiency of the engineer, as furnishing plenty of air, requisite that the coal is almost inexhaustable. space. A great many miners use ated by the Rich Hill Coal Mining John X Jones, who put up and run modes of ingress and egress, and It would be impossible, however, tans at the top of the up cast shaff Company in 1880, and has been the first engine at slope No. 1. He sufficient props. They have always for me to give even an intelligent which answers the same purpose as running ever since. The company also tests all the boilers used by the treated your inspector with the approximate estimate of this vast the furnace, this fan being run by is drawing the pillars at present on company, and has never yet had an greatest courtesy, and never failed arrear. the north side, and on the south side accident. I find him faithful and to immediately rectity any mistakes COAL SHIPPED DURING THE YEAR. where it was thought would have to efficient in the discharge of his or violations of law pointed out to be abandoned, they are working a duties. Mine No. 6 is located in them. I am glad to report that the vein from 5 to 51 of good coal. This Sec. 31, township 36, range 31. mine has a good turnace and air shaft and is well ventilated; located in section 36. township 39, range 32.

MINE NO. 5. Is worked by shaft, 25 feet deep, coal hoisted by single engine, 40 horse power, Ed. Holland, engineer, and Thos Brennen, pit boss, Abel Mentzer, weigh boss. The average thickness of the vein is 41 feet. The number of miners employed in this nine is one hundred and fifty, and thirty-five extra hands employed in and around the mines. The roofing is black slate and soap stone, in good condition. This shaft was first sunk and contracted by Alexander Wilson, but at the present time is operated by the company. Great improvement has been made in these mines, both inside and out. Three shoots have been erected, which contain a a revolving screen, which divides the coal in three sizes-egg, nut and slack-besides the lump coal, which passes directly into the cars. This screen is run by a small engine. This mine has a ventilating fan which is capable of throwing 40,000 cubic feet of air per minute; is well ventilated and tully up to the standard required by law. An average of powder used per day is 25 kegs. one time they could only fire once | 29, range 32. per day, and then in the evening, the air being insufficient to carry off the smoke and gases. There are tourteen mules used in this mine to haul the coal to the bottom of the shaft. There is an average of 40 R. R. cars loaded per day. No. 5 has also a stairway for men to go in and out of the mine. There is an ingress and egress according to law; there is also proper gates and cover ings to entrance of shatt at top and lower landing as proscribed by law there should be. This mine is lo-

MINE NO. 6,

township 39, range 32.

cated in northwest corner section 36,

Worked by shaft, 45 feet deep, coal hoisted by double engine, 60 horse power, John X. Jones, engineer: John Graham, pit boss; Thos Graham, weigh boss. The average of vein is 5 feet, rooting is black slate and soap stone, in good condition, mine well ventilated and well propped. One hundred and fitty men are required to operate this mine, besides 35 extra hands employed in and around the mine. Mine No. 6 was first operated and contracted by Birch and Brown, and was not in good condition, but under the present management of the company is fully up to the requirements of law, regarding health, safety to employes and ventilation. There is now an air shaft with a ventilating fan with a capacity of 40.000 cubic feet of air per minute; there is also a stairway for ingress and egress, which, in connection with the shaft, makes two outlets to this mine as proscribed by law. An

average of 16 kegs of powder per day is used, the miners fire their shots twice per day, the same as No. 5. The reason so much powder is not required is on account of the coal being higher and better to work. Only one shot a day was formerly fired in this mine on account of the insufficiency of air to drive out smoke and gases. The same number of coal shoots with revolving screen are

MINE NO. 10,

Is operated by shaft, depth 55 feet, with a thickness of coal from 3 to 4 feet, roofing is black slate and soap stone, well propped and ventilated. The coal is drawn to the surface David Conway, engineer; E Allison, pit boss; Chas. W. Lanier, weigh boss. There are 56 miners employed in operating this mine, besides 14 extra hands in and around the mine, with four mules to draw the coal to bottom of the shaft. would have to be abandoned on account of the condition of the coal, out of this shaft from 13 to 20 railfurnished with air shaft and exhaust pan or air fan, the same as in the other shafts, with the same capacity. The miners fire their shots twice per is first-class. It is located in southday-at noon and at 5:30 p. m. At east quarter of section 26, township

MINE NO. 12

Is at present idle, but not abandoned, as there is lots of good coal to be gotten there, the ven being five feet thick.

The Hudson mines are worked by dritting, Wm. Hudson is contractor of these mines under the Rich Hill Coal Mining company, and he works 15 miners; the amount of coal produced is given in with the company's. Sim Jay, pit boss. The ventilation in this mine is very good, roofing is black slate. The mine formerly worked by Hudson & Brown has been abandoned for the present.

The Charon & Williams mines, contracted the same as the Hudson mine, by George Charon and Frank Williams, works fifteen miners and five extra hands in and around the mine. This mine is worked by slope, the coal being hauled up the slope by mule power. Thickness of vein being 41 feet, depth below the ground about 15 feet. Geo. Charon, manager and pit boss; roofing of black slate, ventilation very good, being an air shaft and furnace. The amount of coal is given in with the company's.

The Wilson mines, worked on the same principle as above, contracted by Alexander Wilson, is worked by slope, the coal being hauled up the slope by mule power. They work nineteen miners and five extra hands in and around the mine. Thickness of vein 54 feet, with black slate and soap stone roofing. This mine is located opposite No. 5 mine and is on the opposite side of the hill from | duty. old No. 1 slope, a part of which has been abandoned because of the great length to pull the coal. Some day this slope will run into that part of No. 1 works. The coal is about 20 or 30 feet below the surtace, and is well ventilated by air shaft and tur-

gentlemanly and accommodating in The coal will average 41 to 5 feet attached to this mine as in No. 5 and under them, and use every precau-

very best of feeling exists between the managers and men, and all are working harmoniously together.

KEITH & PERRY MINES.

Mine No. 5, of the Keith & Perry Company, is located on the southwest quarter of Section 25, township with single engine. 40 horse power, 39, range 32, is operated by shaft 70 teet deep, and the vein of coal will average 5 feet in thickness, with roofing of black slate, soap stone and shale. The coal is hoisted to the surface by a double engine, 60 horse power, M. J. Hobbs, engineer. There are 101 colored miners and 66 There are two or three small veins white miners, besides 30 white and of coal above this workable vein, the colored hands in and about the same as in the other mines. It was mine; twelve mules are used to haul thought at one time that this shaft the coal to the foot of the shaft. There is an air fan at the top of the up cast shaft, which is run by ma but through the perseverance of the chinery and has a capacity of 40,000 company's officials it was found to cubic feet of air per minute, which pay, and the company has raised gives a surplus of air all through the mine. The average of railroad cars road cars per day. This mine is of coal taken out per day, when the mine is in operation, is 30. There is run by a small stationery engine, are suitable modes provided for ingress and egress as required by law. There are two openings provided John Mackey is pit boss and Jesse ified. This coal may then be loadfor by law for ingress and egress of Lowry weigh boss. This mine has ed into railroad cars by simply littmen at work in this mine, one a proper gates and coverings to all ing a door and let the coal run into stairway and the other the main entrances, as required by law. The the car. shaft. The ventilation in this mine shaft is fitted up in first-class order with ali modern conveniences Notices are posted on the shaft warning all parties to keep away from the shaft, and should an acci dent occur it will be at said party's own risk.

MINE NO. 4,

of this company's mines is located on the southeast quarter of section 25, township 39, range 35; is worked by drift and strip pit, the coal being hauled out by mules W. M. Hodge is pit boss The number of underground miners employed are 35, all white; in the strip pit are 3 under explosive gas, while the most pow-W. Bracken, 3 under Davis & Barn ard, 6 under Neptune, 3 under Houghton, 3 under Wells, 4 under Fry, 4 mule drivers, 5 road men, 2 car turners and 4 others. The coal is 8 or 10 feet under ground and the vein about 4 feet thick. Ventilation good. These mines were only run air mixed with this gas, before it will two months during the year. The Keith & Perry Company, under the able management of George R. Sweener, Superintendent, operate altogether on the Gulf railroad. They have in vogue a custom that I don't find in any other company in Bates county, that of sending to the miners at work props, rails or anything else needed in their works, by the drivers, hence obviates the necessity of their losing time from their work. Mr. Sweeney uses every precaution possible for the comfort and safety of the miners under him. and never hesitates to rectify any evil that may be pointed out to him by the inspector. He has treated sion. It has a choking sensation your Inspector with the greatest of courtesy and is ever ready to assist him in the discharge of his official

AREA OF COAL.

Mining operations in the coal series of Walnut, Mulbery and Hudson, and other series of Bates county, have not been conducted extensively enough to demand my official attention and presence but some coal nace. Jas. Kirkby is pit and weigh is being taken out in each of the above series and I am convinced The officials of this company are that the coal is equal in quantity and quality as in those fields being detheir dealings with the men working veloped. Walnut has a railroad

records.

339,300 tons. This includes all the as when it is in the north The strippings and contracts. Keith & temperature in the mine is variable Perry Coal Company, 198,000 tons. This is from December 1, 1885 to 1886, inclusive.

DIVISION OF COAL. At Nos. 5 and 6, of the Rich Hill Coal Mining Company, there are shoots or bins in operation where the coal is divided into three parts, namely, from its size, the egg, nut and slack coal. When the coal is hoisted from the mines by the main shaft, it is taken from the cage and weighed and dumped into the screen. The bars of this screen is tar enough apart to let egg, nut, and slack, go through and the lump coal passes directly over the screen into the railroad cars. The egg, nut and slack is conducted by a small shoot to the revolving buckets, which convey it to the revolving screen. This screen 10 horse power, which seperates the coal into the apartments above spec-

GASES IN MINES.

No mine is ever entirely free from gases, one need not expect to find this state of things to exist, but if a sufficient current of air is sent continuously through the mines it drives out these gases before they can accumulate. There is several kinds of gases to be found, the black damp, white gas and explosive gas. I consider the white gas the most injur ious from the fact that it will allow the men to work in it until they be come weak and powerless to get out, usually fall to sleep and die, while erful can be guarded against. It clings to the top of the roofing and if not driven out by the air it would soon accumulate sufficient to become ignited from the candle of the workman and explode. It takes a certain proportion of atmospheric ignite. For instance, if a room was completely tull of it free from air, it would be perfectly free from explo sion until atmospheric air was let in. One toot of gas mixed with seven to ten teet of air would be the greatest explosive mixture. This gas consists of four parts of hydrogen and one of carbon. Carbonic acid gas (or black damp) is invisible, incombustable, and inexplosive. It is a positive poison and at once kills, it lays close to the bottom, like mud does in water. The miner can be warned of its presence by his light going out. After damp is a gas that accumulates just after an exploand it will kill it one stays in it. Its presence is recognized by a choking sensation, and a kind of lethargy takes possession of the victim. These mines being so well ventilated that there is practically no danger from any of these gases.

VENTILATION.

Proper ventilation to give plenty of good air to the men at work is one of the most important considerations in mining. This is accomplished by means of furnaces at the bottom of an up cast shaft, this furnace does not draw the air through the mines as some, even among J. Wal

.ce \$1,00.

machinery. The condition of the atmosphere has considerable to do The following is the amount of with the quality and quantity of air coal mined and shipped during the received in the mines. When it is year as taken from the companies a damp day the air is not so pure, being softer, the same as when the Rich Hill Coal Mining Company, wind is in the south it is not as pure according to the depth under ground and the number of men and mules worked therein. There would be a natural ventilation from these causes but not enough to turnish air tor man and beast. The air to have a continuous circuit and reach all parts of the mine must have channels let? open, and men working in various parts of the mine cannot be too careful in this respect in seeing that thew supply of air is not interferred with by obstructions placed in the way, Any practical miner can readily tell it he has sufficient air, or it the supply is pure from obnoxious gases, this he can tell by his own feelings or by holding his lamp in the draft. DIVISION WORK.

> I have devoted much study and observation as to the best methods of turnishing fresh air to men at work, and of taking away the impure air already breathed and the smoke and impure gases. The present system used in our mines is to have only one draft of air going the tull length of the mines, every miner in the works breathing the same air, now my theory is, that the men should be worked in divisions and the impure air or that used by each respected division separated from the pure air by means of an over cast and taken off to its escapes. This we believe, would prove more satisfactory and healthful to the men and be of benefit to the company in as much as the men could do much more work and in a more satisfactory manner under such favorable circumstances. This is no wild theory but is eminently practicable and should be put into effect.

BOILER TESTS.

All boilers used to generate steam for the engines at the mines have been tested by hydrostatic pressure and warm water, by a qualified person every six months, and the papers tiled in my office.

IRON AND COPPER TAMPING BARS.

As a number who may read this report might wonder what is meant by a taming bar a very short explanation we think would not be amiss at this time. A tamping bar or tamping iron as it is some times called, is a bar used to firmly embed the tampting substance onto the power, this har has a crese to fit around the needle so as to make the tamping matter thoroughly compact. In the tamping process accidentotten happen by the bar striking fire from sulphur which substance is found in greater or less quantities in all coal. The question is often in dispute which is the sater to prevent accidents, the iron or copper bar In a test case by scientific men of Europe, cut of 36 cases sested, 10 struck fire with iron and 9 with copper, so that the percentage is greatly in favor of copper. However, a great many miners differ on this question and we leave the matter with the practical miner to use his own judgment. Either is sale enough when proper precaution se

ACCIDENTS IN THE MINES.

It becomes my sad duty in submitting this, my first report to the Labor Commissioner, to chronicle the tollowing accidents in our mines, (Continued on Editorial Page)